

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 23170 - L2 Version 1
Chandra X-Ray Center

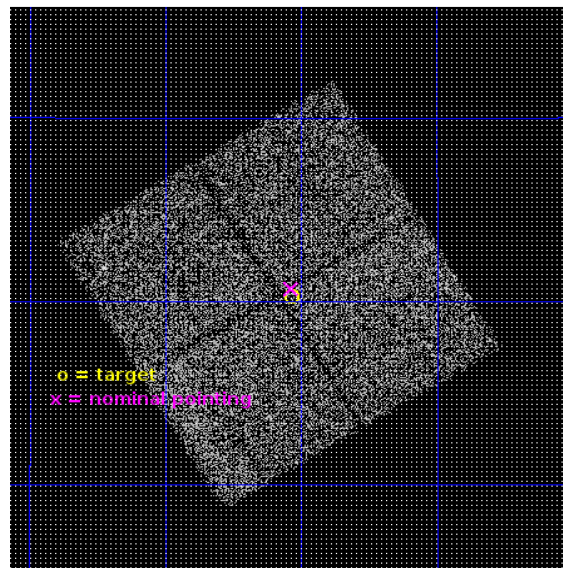
L2 Processing Date : Feb 22 2020

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1 Front

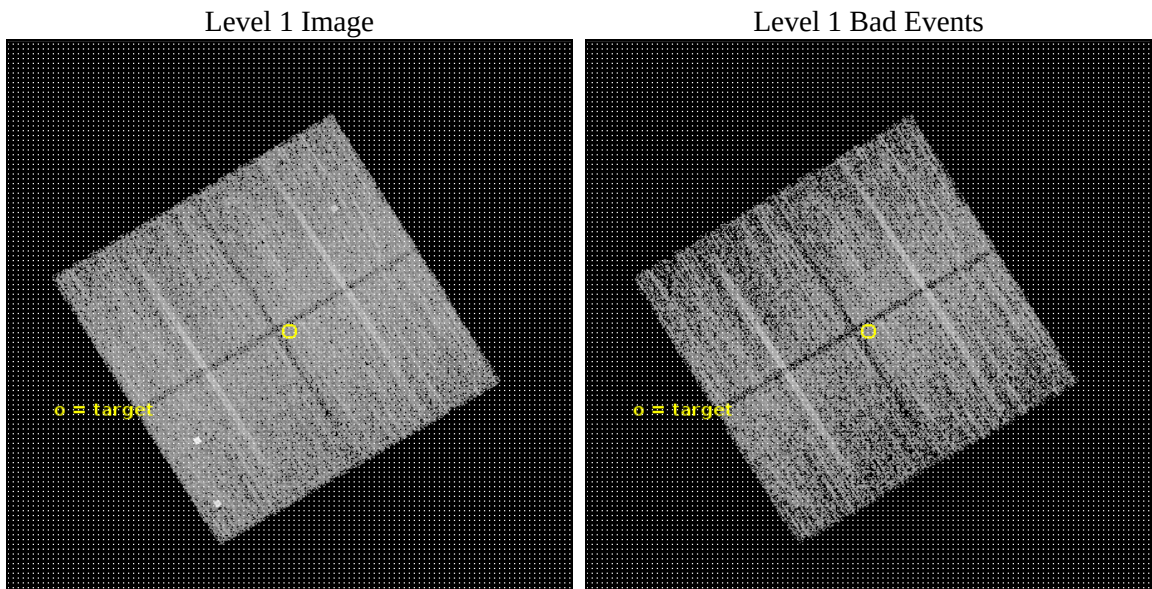
seq_num	201348	Sequence number
obs_id	23170	Observation id
title	Milky Way HEPCATs	Proposal title
observer	Leisa Townsley	Principal investigator
object	HEP G054.038-00.045	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	292.883606	Observer's specified target RA [deg]
dec_targ	18.670818	Observer's specified target Dec [deg]
ra_nom	292.88398515006	Nominal RA [deg]
dec_nom	18.678210847533	Nominal Dec [deg]
roll_nom	58.727312688462	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9972.7000768185	Sum of GTIs [s]
livetime	9842.3994085198	Livetime [s]
ontime0	9966.4179965258	Sum of GTIs [s]
ontime1	9969.5589865446	Sum of GTIs [s]
ontime2	9972.7000768185	Sum of GTIs [s]
ontime3	9972.7000768185	Sum of GTIs [s]
l2events	28479	Number of level 2 events



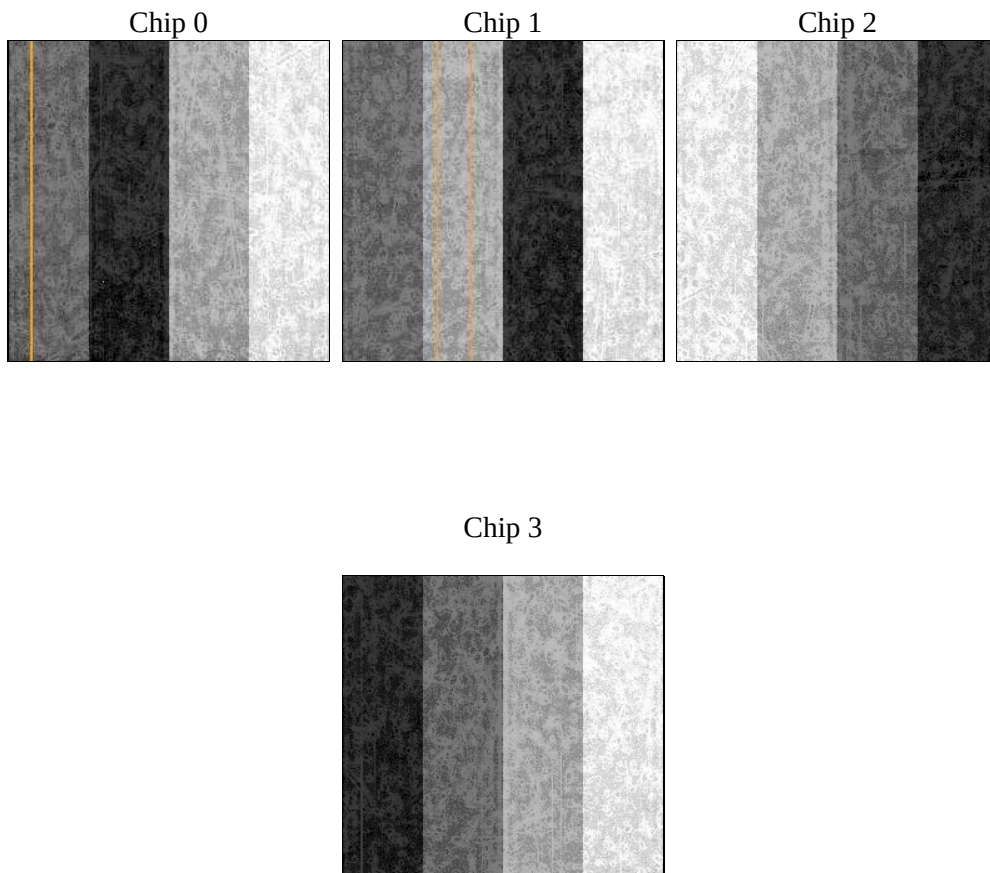
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	9972.7000768185	Sum of GTIs [s]
caldsver	4.8.4.2	 	ontime0	9966.4179965258	Sum of GTIs [s]
date	2020-02-23T01:17:46	Date and time of file creation	ontime1	9969.5589865446	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	9972.7000768185	Sum of GTIs [s]
			ontime3	9972.7000768185	Sum of GTIs [s]
			l1events	313323	Number of level 1 events

2.1.4 Events

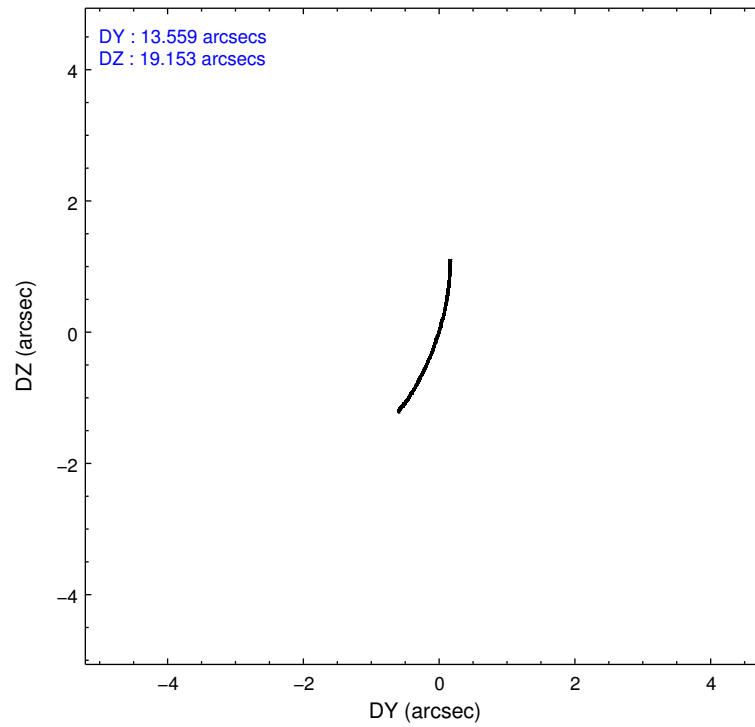
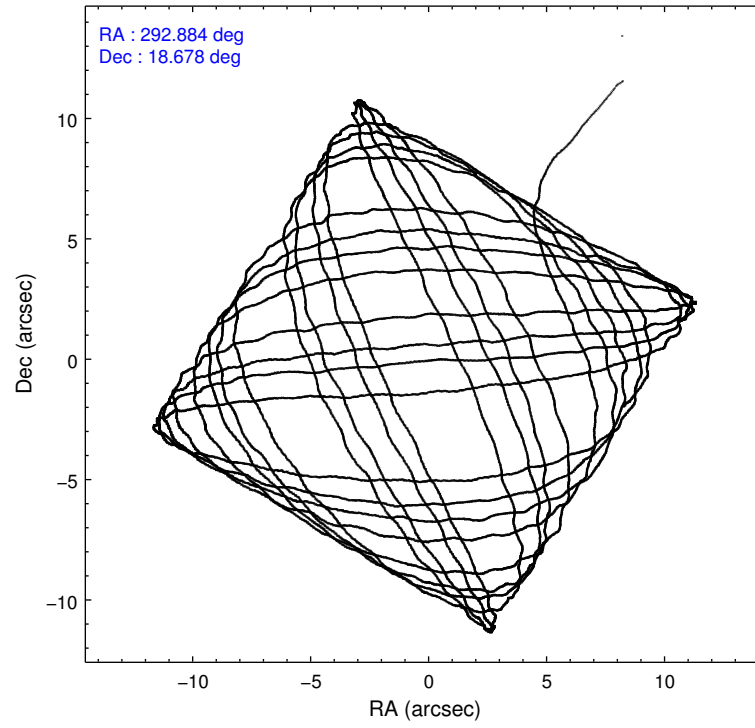
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	73176	77564	81837	80746
rejected events	64843	63794	73150	72711
rejected %	88%	82%	89%	90%

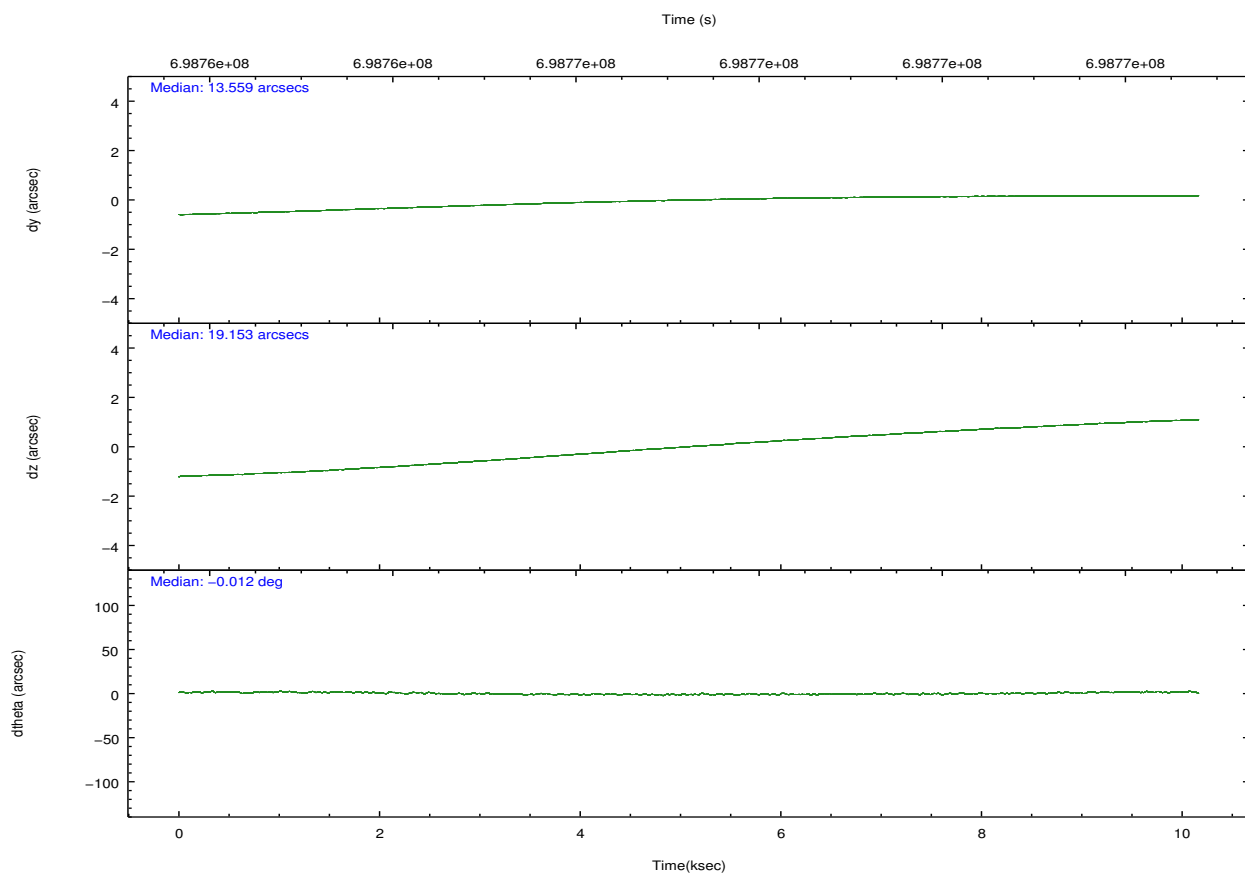
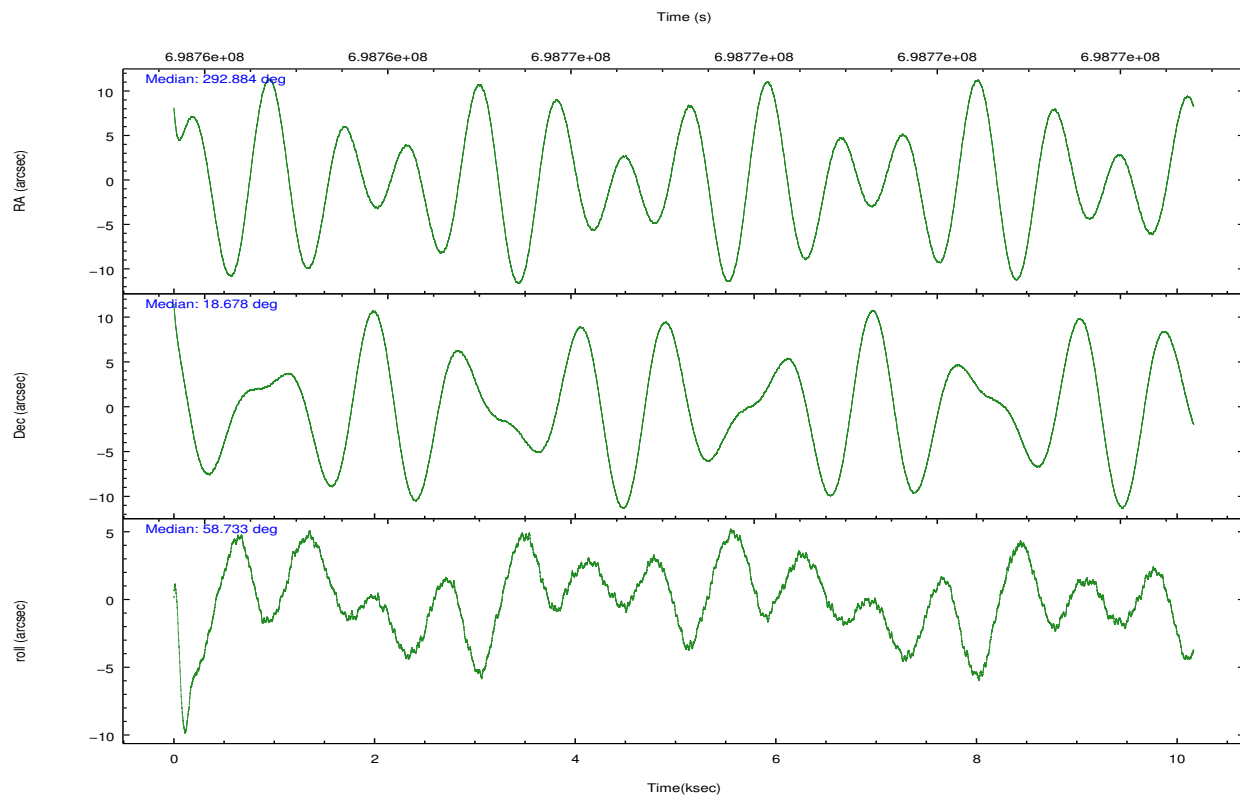
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	2723	7073	3455	2828
	3%	9%	4%	3%
grade 1 events	40	62	44	36
	0%	0%	0%	0%
grade 2 events	2177	2760	2003	1791
	2%	3%	2%	2%
grade 3 events	813	738	766	821
	1%	0%	0%	1%
grade 4 events	680	757	761	768
	0%	0%	0%	0%
grade 5 events	2847	2972	2942	3378
	3%	3%	3%	4%
grade 6 events	1946	2447	1711	1833
	2%	3%	2%	2%
grade 7 events	61950	60755	70155	69291
	84%	78%	85%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	292.883398	292.8839851500629	Subarray requested	NONE	NONE
[deg] Pointing Dec	18.650606	18.67821084753254	Alternating exposures requested	N	N
[deg] Pointing Roll	58.518808	58.72731268846213	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	698762258.184000	698761015.2175699			
Observation start date	2020-02-22T12:36:29	2020-02-22T12:16:55			
[s] Observation end time (MET)	698772258.184000	698773323.93082			
Observation end date	2020-02-22T15:23:09	2020-02-22T15:42:03			
Read mode	TIMED	TIMED			

2.3 Aspect



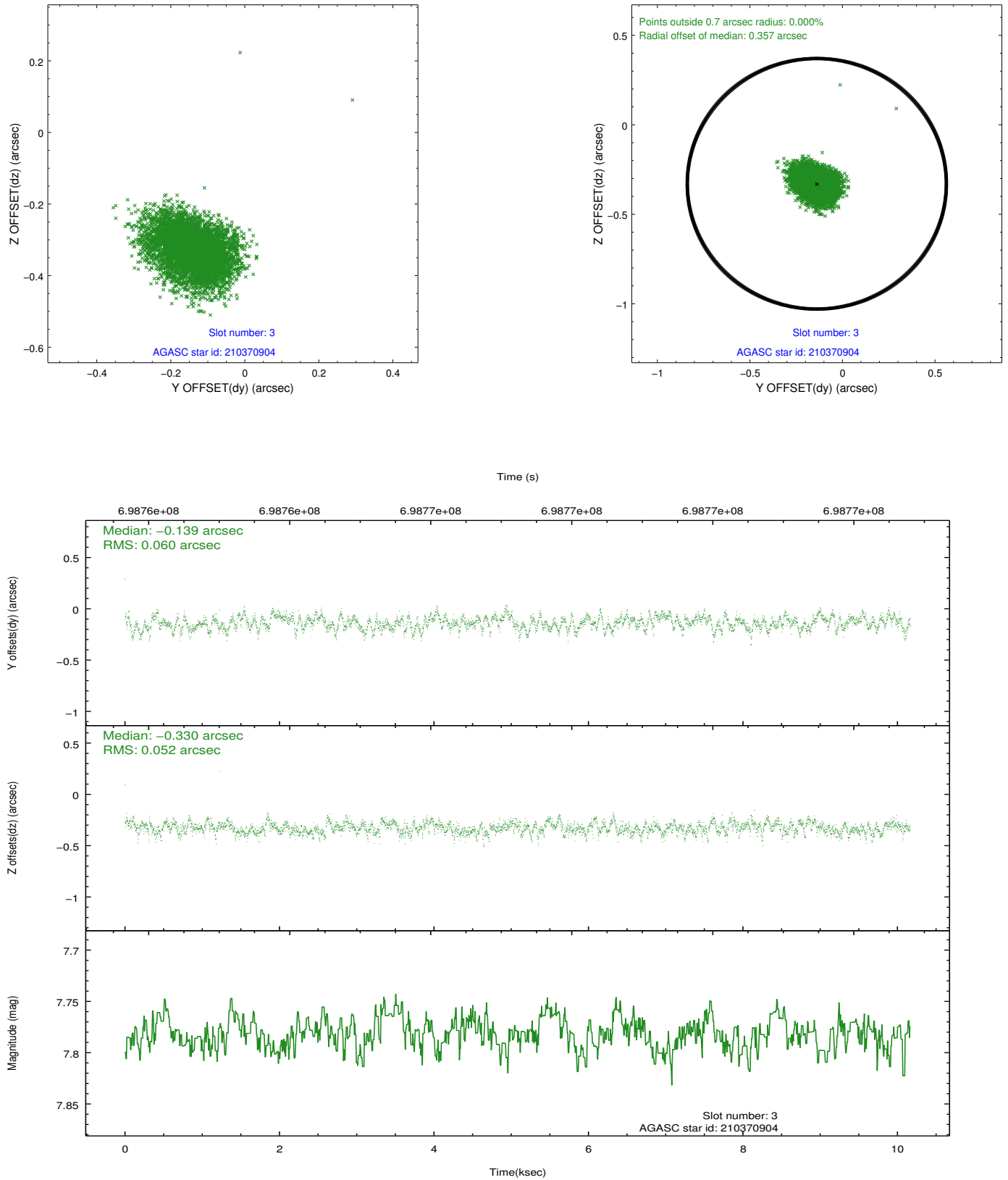


Slot Statistics

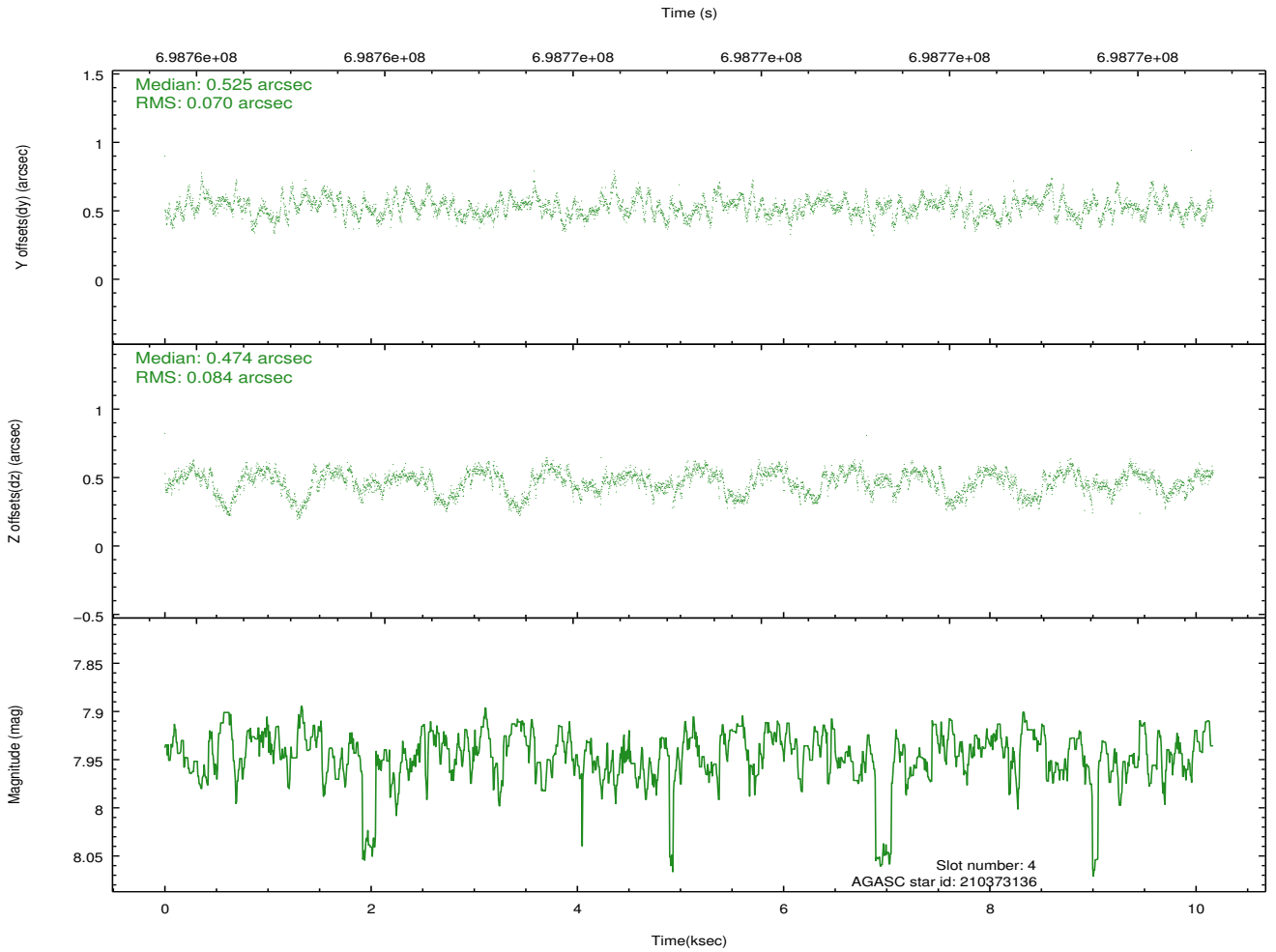
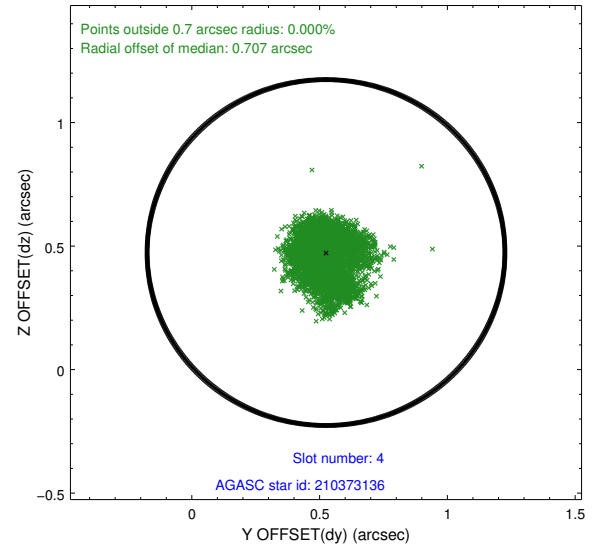
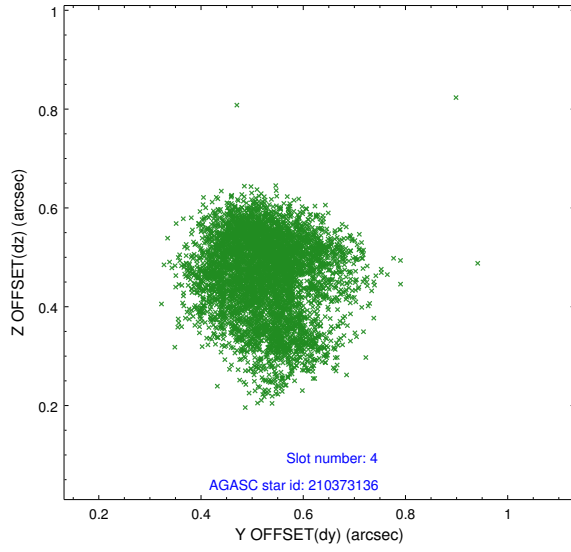
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.27	2480	1.000	0.191	-0.221	0.012	0.019	0.000000	0.000000	926.37	-842
1	FID		ACIS-I-3	7.48	2480	1.000	-0.052	0.183	0.015	0.023	0.000000	0.000000	43.94	-976
2	FID		ACIS-I-5	7.26	2480	1.000	-0.227	0.109	0.015	0.033	0.000000	0.000000	-1822.56	1054
3	GUIDE	used	210370904	7.78	4959	1.000	-0.139	-0.330	0.084	0.135	292.563039	18.704932	-403.41	1034
4	GUIDE	used	210373136	7.95	4960	1.000	0.525	0.474	0.117	0.186	292.893985	17.958185	-2106.17	-1331
5	GUIDE	used	210375784	7.13	4959	1.000	0.117	0.320	0.097	0.159	292.707024	18.250669	-1542.66	-236
6	GUIDE	used	210376496	8.64	4952	1.000	0.211	0.175	0.145	0.241	293.385337	18.705566	1064.62	-1354
7	GUIDE	used	210901376	7.05	4959	1.000	-0.719	-0.632	0.085	0.129	292.749631	19.434076	2168.25	1859

2.4 Star Slots

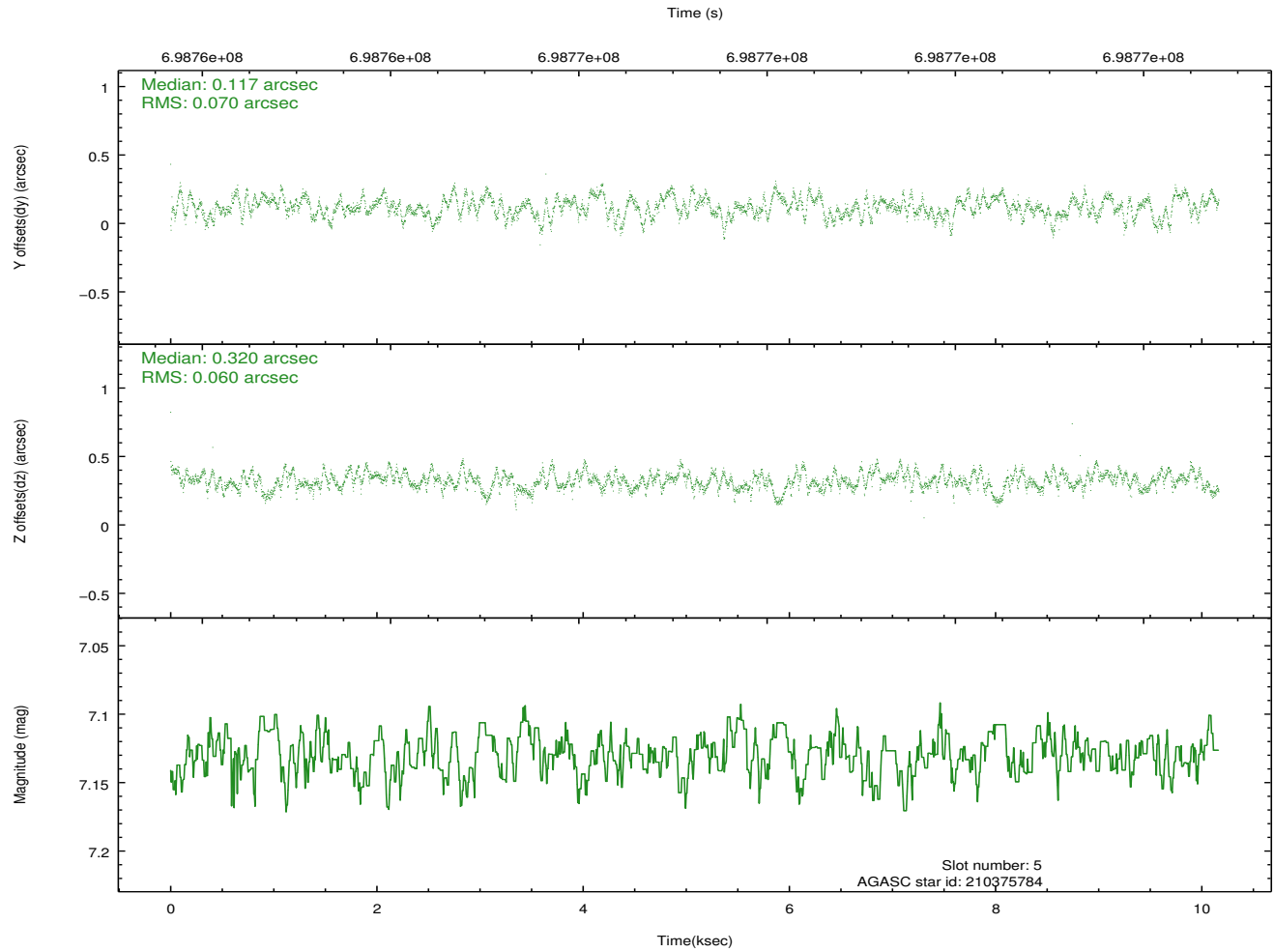
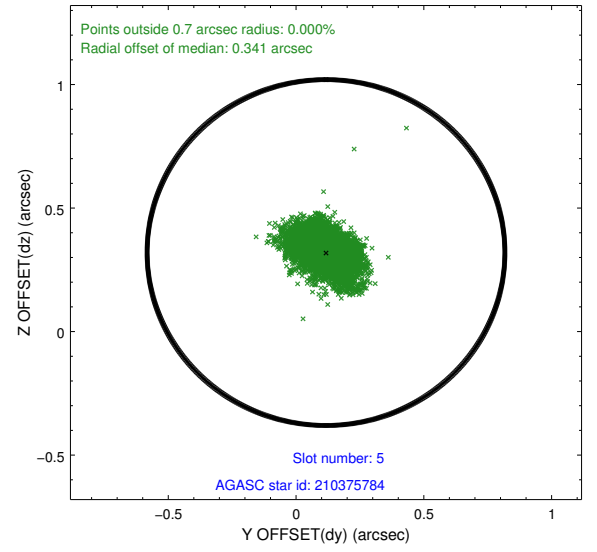
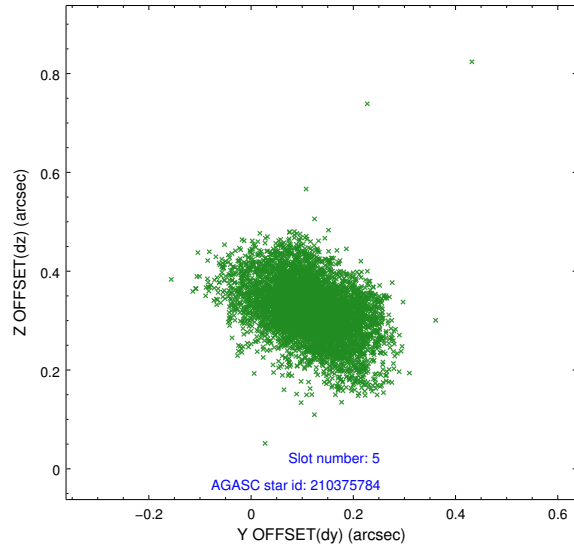
2.4.1 Slot 3



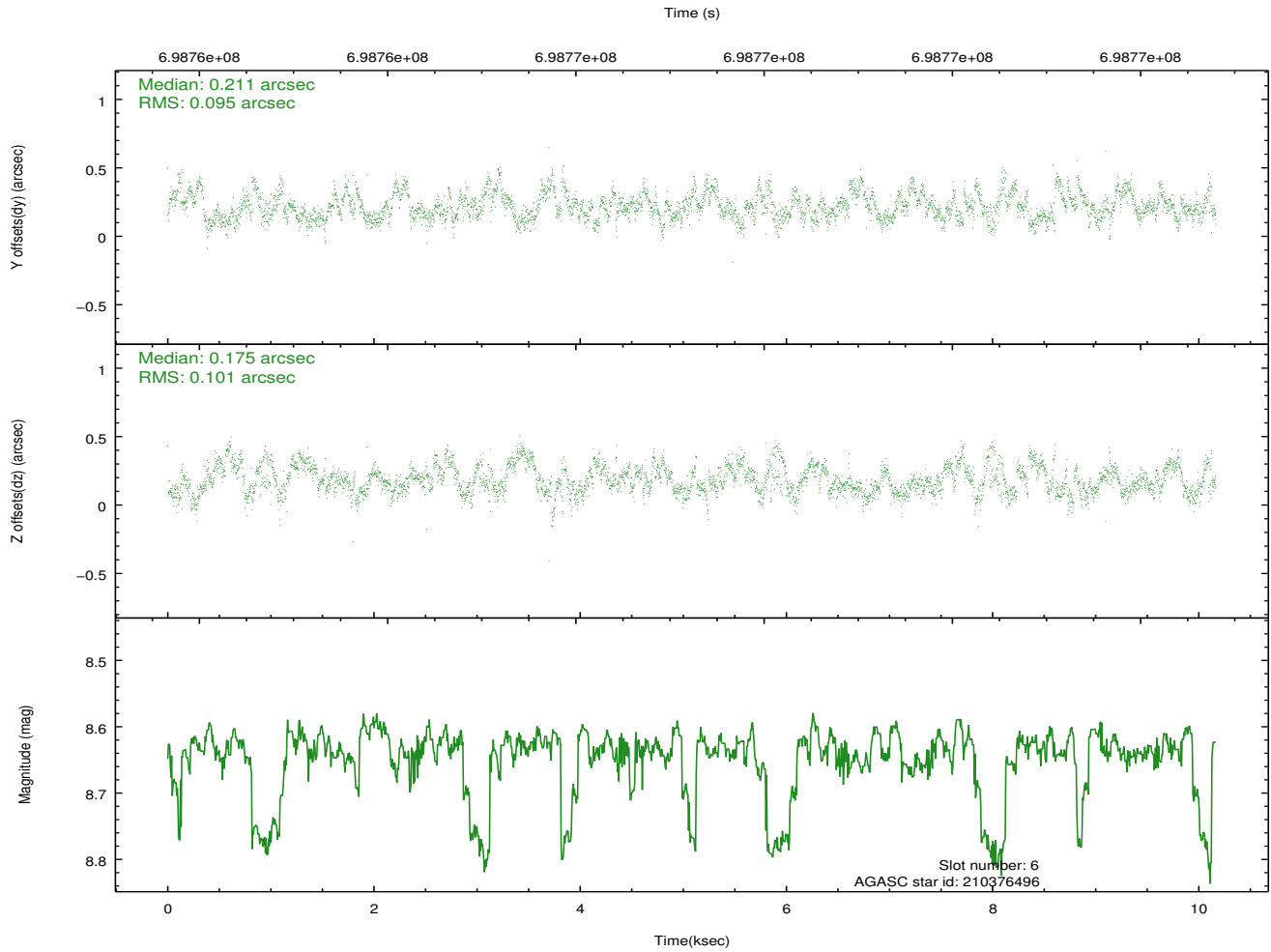
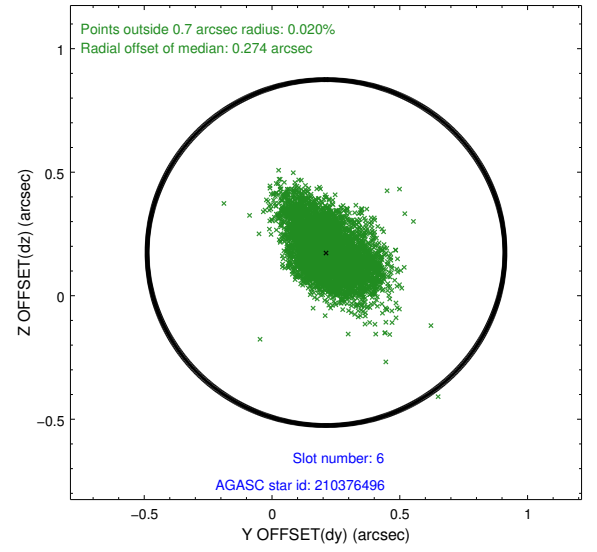
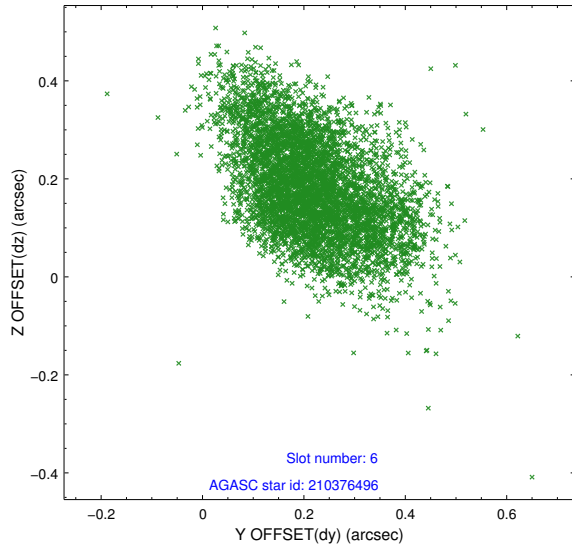
2.4.2 Slot 4



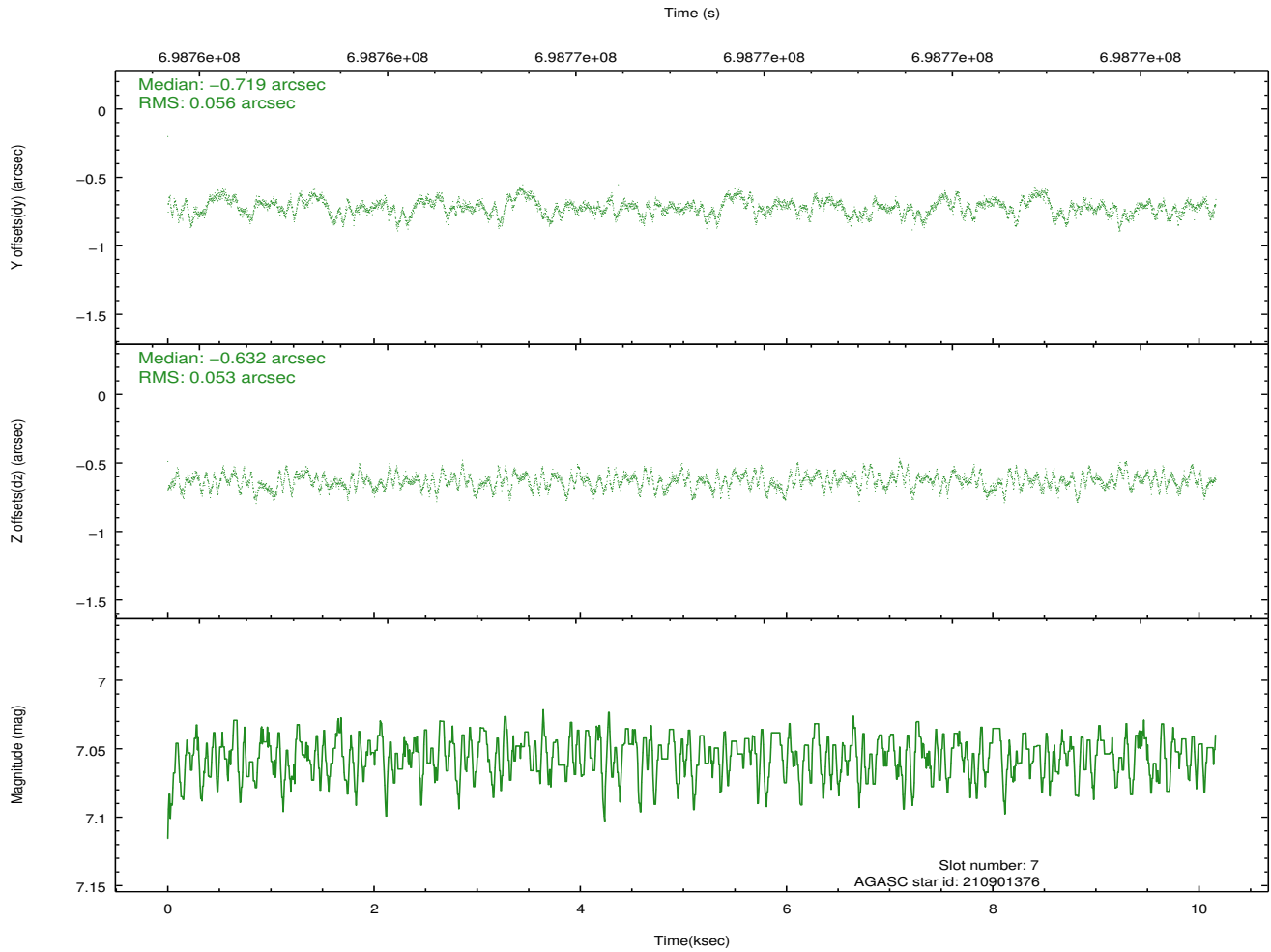
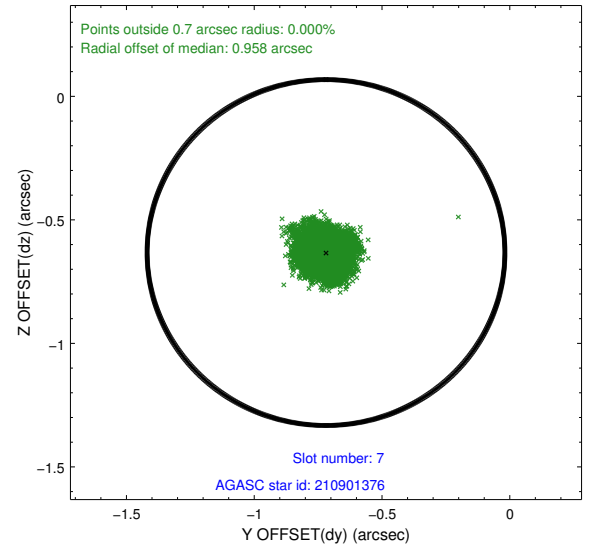
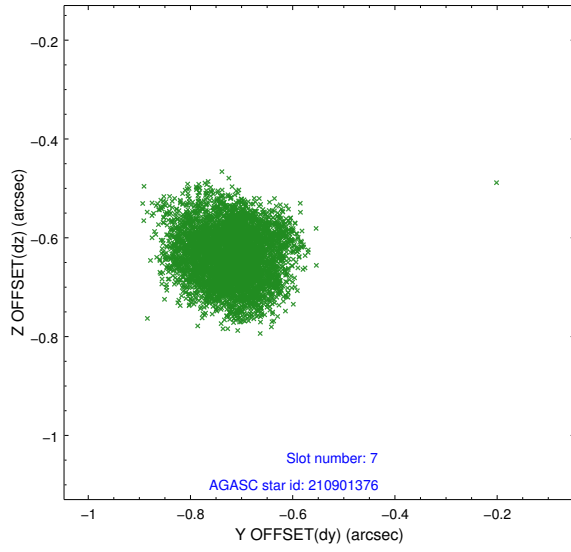
2.4.3 Slot 5



2.4.4 Slot 6

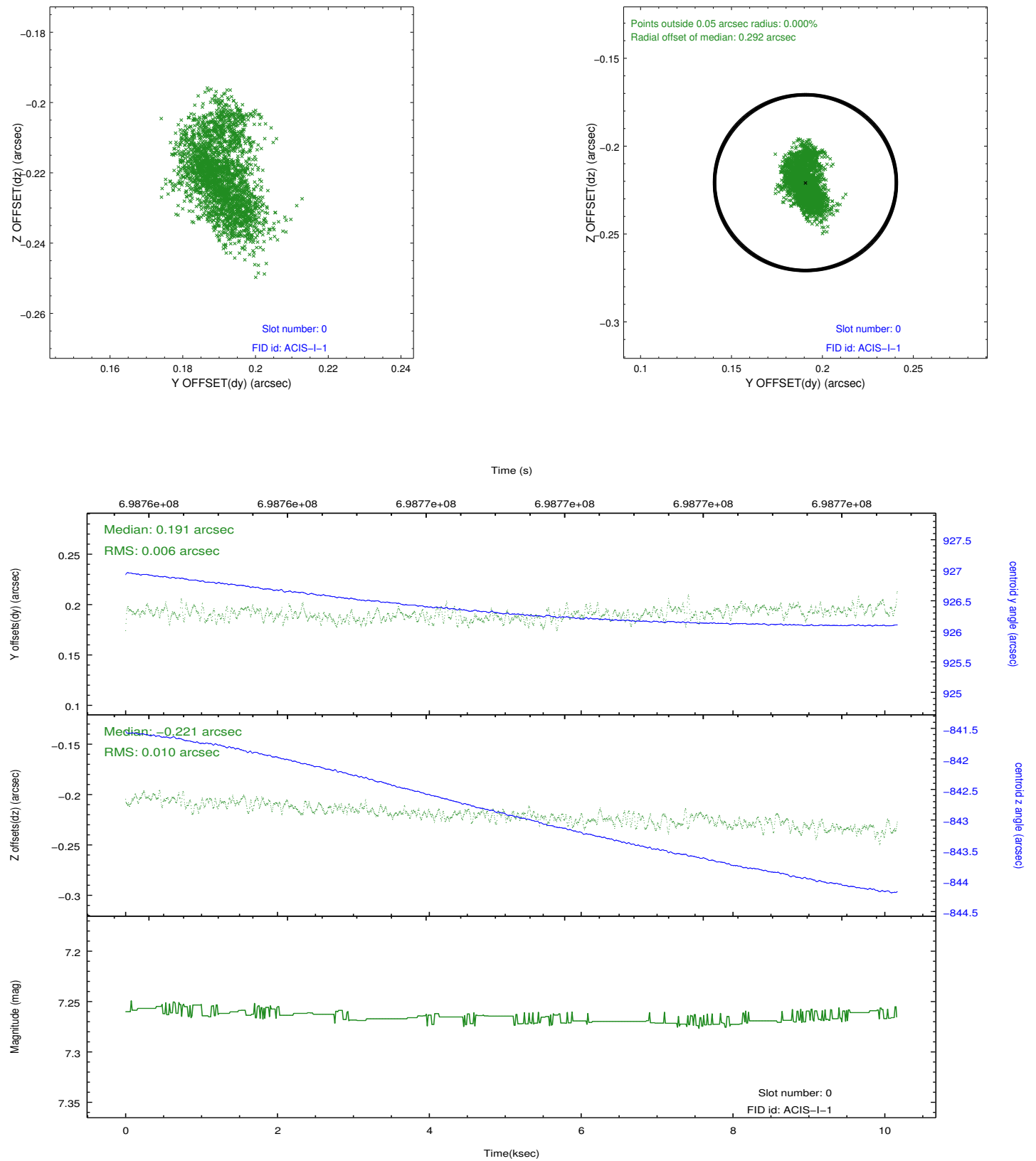


2.4.5 Slot 7

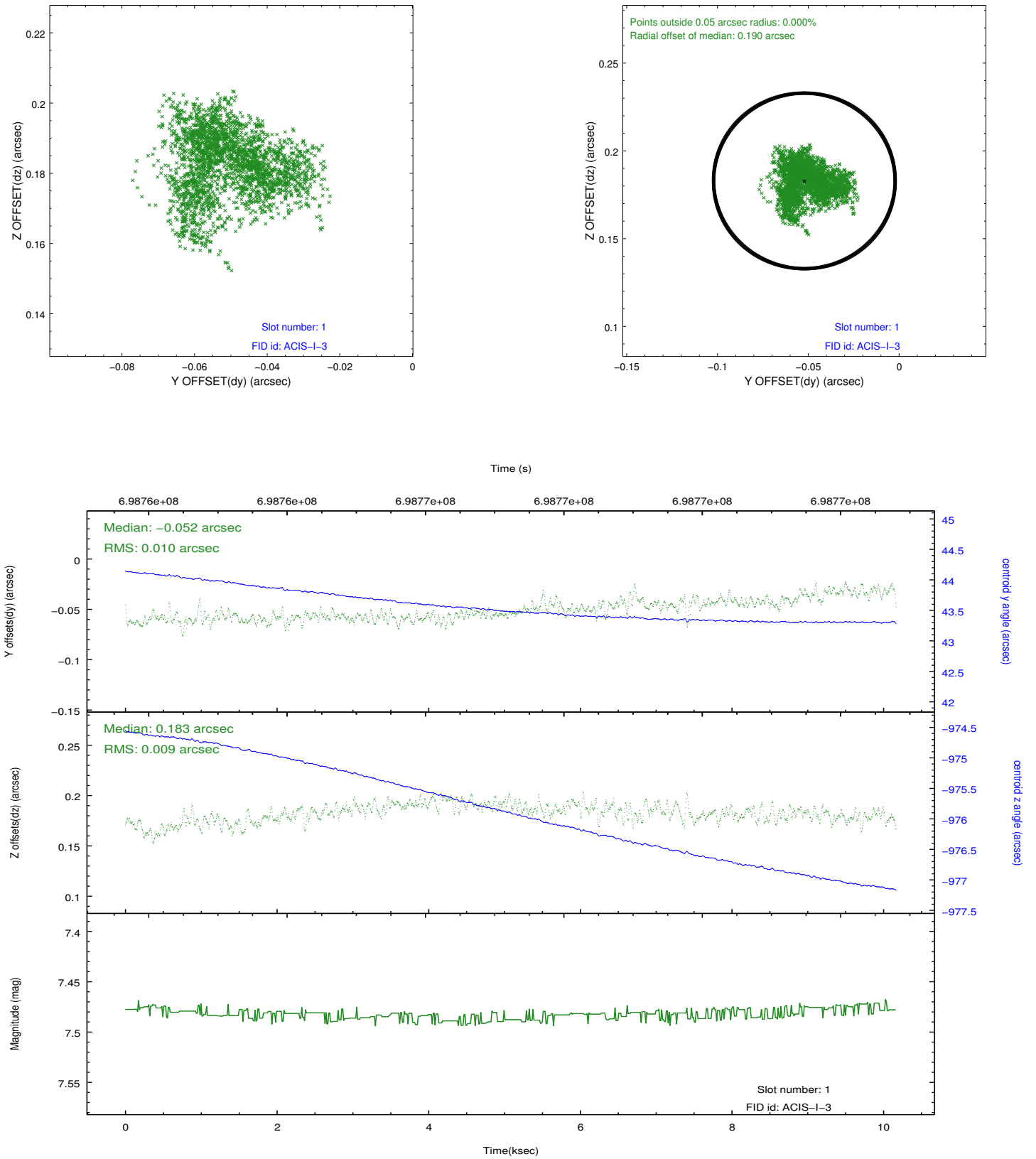


2.5 FID Slots

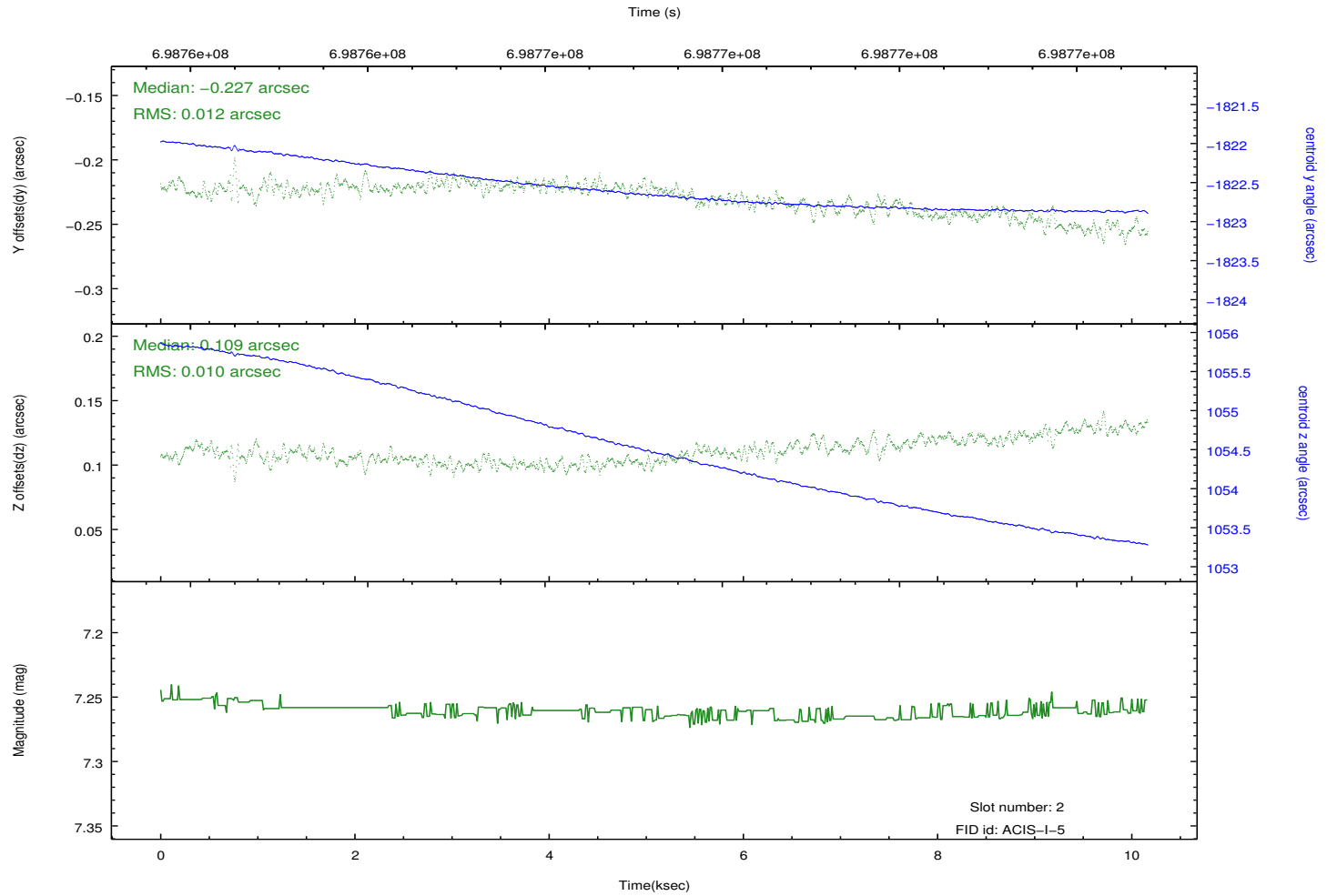
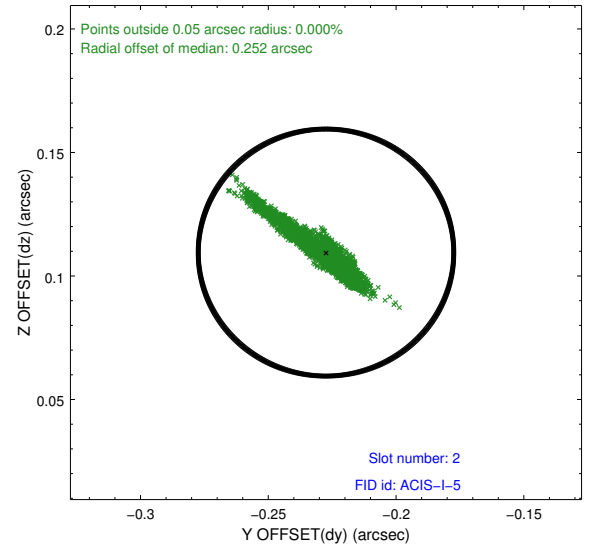
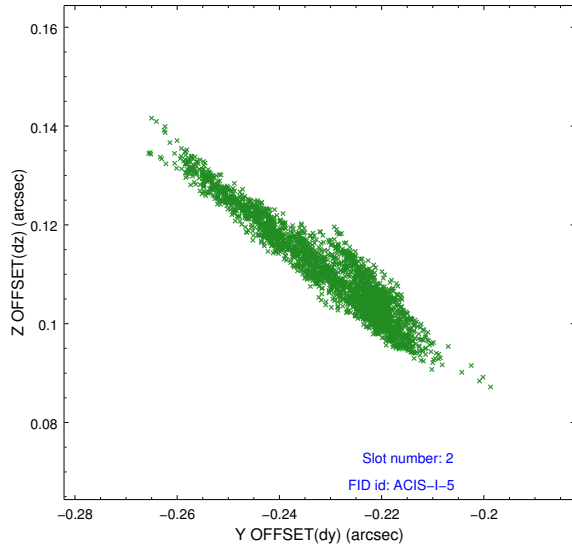
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.02.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9727000768185

A.2 Comments